

IN THE CLAIMS

Claims 1-10 (Canceled)

11. (New) A storage apparatus for setting at least a logical volume over a plurality of physical storage devices, said apparatus comprising:

means for receiving a volume creation request specifying a requested average performance;

means for forming a judgment as to whether or not all logical volumes, which include present logical volumes that are already set and each sharing any of said storage devices with a logical volume to be created and said logical volume to be created, each satisfy its requested average performance by referring to information of requested average performance on a storage means for each of said present logical volumes; and

means for setting said logical volume to be created if said all said logical volumes each satisfy said requested average performance.

12. (New) A storage apparatus according to claim 11, wherein said information of requested average performance is

based on performance information collected by a client computer which accesses said storage apparatus.

13. (New) A storage apparatus according to claim 12, further comprising:

means for receiving an unoccupied-area-searching request specifying information on said requested average performance;

means for forming a judgment as to whether or not all logical volumes, which include present logical volumes that are already set and said new volume supposed to be added to said present logical volumes, each satisfy its requested average performance by referring to said information of requested average performance for each of said present logical volumes which share any of said storage devices with an unoccupied area; and

means for displaying information on said area if all said logical volumes each satisfy said requested average performance.

14. (New) A computer system comprising a storage apparatus, a client computer which accesses said storage apparatus, and a volume management apparatus which sets at

least a logical volume over a plurality of physical storage devices residing in said storage apparatus,

said client computer having means for transmitting a volume creation request specifying a requested average performance to said volume management apparatus, and

said volume management apparatus comprising:

means for receiving said volume creation request from said client computer;

means for forming a judgment as to whether or not all logical volumes, which include present logical volumes that are already set and each sharing any of said storage devices with a logical volume to be created and said logical volume to be created, each satisfy its requested average performance by referring to information of requested average performance on a storage means for each of said present logical volumes; and

means for setting said logical volume to be created if said all said logical volumes each satisfy said requested average performance.

15. (New) A computer system according to claim 14, wherein said information of requested average performance is

based on performance information collected by said client computer.

16. (New) A computer system according to claim 14, wherein said information of requested average performance is based on performance information obtained by said storage apparatus.

17. (New) A computer system comprising a storage apparatus, a client computer which accesses said storage apparatus, and a volume management apparatus which sets at least a logical volume over a plurality of physical storage devices residing in said storage apparatus,

said client computer having means for transmitting a volume creation request specifying a requested average performance to said volume management apparatus, and

said storage apparatus comprising:

means for receiving said volume creation request from said client computer;

means for forming a judgment as to whether or not all logical volumes, which include present logical volumes that are already set and each sharing any of said storage devices with a logical volume to be created and said logical

volume to be created, each satisfy its requested average performance by referring to information of requested average performance on a storage means for each of said present logical volumes; and

means for setting said logical volume to be created if said all said logical volumes each satisfy said requested average performance.

18. (New) A computer system according to claim 17, wherein said information of requested average performance is based on performance information collected by said client computer.

19. (New) A computer system according to claim 17, wherein said information of requested average performance is based on performance information obtained by said storage apparatus.

20. (New) A volume management method for setting at least a logical volume over a plurality of physical storage devices residing in a storage apparatus, said method comprising the steps of:

receiving a volume creation request specifying a requested average performance;

forming a judgment as to whether or not all logical volumes, which include present logical volumes that are already set and each sharing any of said storage devices with a logical volume to be created and said logical volume to be created, each satisfy its requested average performance by referring to information of requested average performance on a storage means for each of said present logical volumes; and

setting said logical volume to be created if said all said logical volumes each satisfy said requested average performance.

21. (New) A volume management method according to claim 20, wherein said information of requested average performance is based on performance information collected by a client computer which accesses said storage apparatus.

22. (New) A volume management method according to claim 20, wherein said information of requested average performance is based on performance information obtained by said storage apparatus.

23. (New) A computer system comprising a storage apparatus, a client computer which accesses said storage apparatus, and a volume management apparatus which searches for an unoccupied area used by a new logical volume over a plurality of physical storage devices residing in said storage apparatus,

said client computer having means for transmitting an unoccupied-area-searching request specifying information on requested average performance to said volume management apparatus, and

said volume management apparatus comprising:

means for receiving said unoccupied-area-searching request from said client computer;

means for forming a judgment as to whether or not all logical volumes, which include present logical volumes that are already set and said new volume supposed to be added to said present logical volumes, each satisfy its requested average performance by referring to information of requested average performance on a storage means for each of said present logical volumes which share any of said storage devices with an unoccupied area; and

means for displaying information on said area if all said logical volumes each satisfy said requested average performance.

24. (New) A computer system comprising a storage apparatus and a client computer which accesses said storage apparatus, said storage apparatus searching for an unoccupied area used by a new logical volume over a plurality of physical storage devices residing in said storage apparatus,

said client computer having means for transmitting an unoccupied-area-searching request specifying information on requested average performance to said storage apparatus, and

said storage apparatus comprising:

means for receiving said unoccupied-area-searching request from said client computer;

means for forming a judgment as to whether or not all logical volumes, which include present logical volumes that are already set and said new volume supposed to be added to said present logical volumes, each satisfy its requested average performance by referring to information of requested average performance on a storage means for each of said present logical volumes which share any of said storage devices with an unoccupied area; and

means for displaying information on said area if all said logical volumes each satisfy said requested average performance.